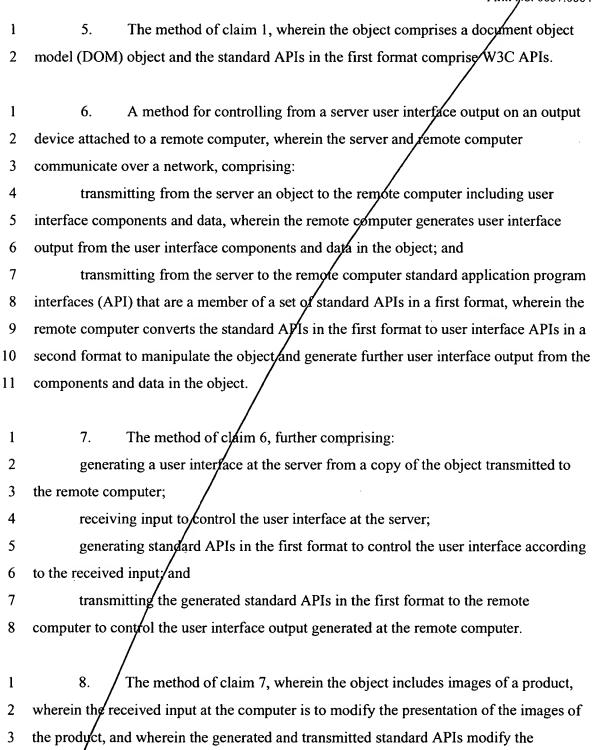
	WHAT IS CLAIMED IS:		
1	1. A method for generating user interface output on an output device attached		
)2	to a remote computer, wherein the remote computer communicates over a network to at		
3	least one server, comprising:		
4	receiving an object including user interface components and data from one server;		
5	generating user interface output from the user interface components and data in		
6	the object;		
7	receiving a standard application program interfaces (API) that are a member of a		
8	set of standard APIs in a first format from at least one server over the network;		
9	converting the standard APIs in the first format to a user interface API in a second		
10	format; and		
11	executing the user interface API in the second format to manipulate the object and		
12	generate further user interface output from the components and data in the object.		
1	2. The method of claim 1, wherein the data included in the object includes at		
2	least one of text, images, and graphics.		

- The method of claim 1, further comprising: 1 3.
- receiving user input commands at the remote computer; 2
- generating user interface APIs in the second format to implement the user input 3
- 4 commands; and
- executing the generated user interface APIs to manipulate the object and generate 5
- further user interface output from the components and data in the object. 6
- The method of claim 1, wherein the user interface output generates a web 1
- 2 browser interface.



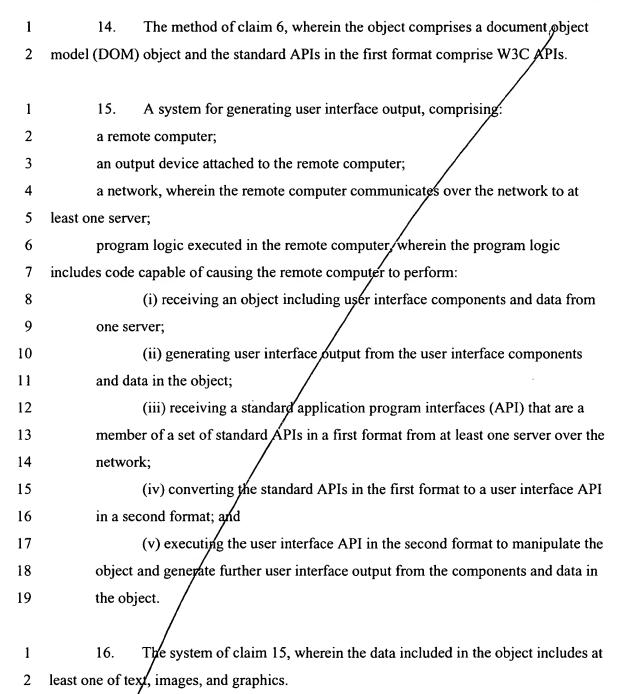
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presentation of the images of the product displayed in the generated user interface output
 at the remote computer.

- 9. The method of claim 6, further comprising:
 transmitting the object to additional remote computers;
 transmitting the standard APIs in the first format to the additional remote
 computers that received the object to manipulate the objects on all the remote computers
 and control the generation of user interface output on the remote computers.
- 1 10. The method of claim 9, further comprising:
 2 receiving, at the server, input from one of the remote computers to manipulate the
 3 object to modify the user interface output;
 4 generating, with the server, standard APIs to implement the manipulations to the
 5 object indicated in the received input; and
 6 transmitting the generated standard APIs to the remote computers to implement
- 1 11. The method of claim 9, wherein the object includes components and data 2 of an interactive lesson, wherein the lesson is presented by transmitting standard APIs to 3 the remote computers to generate user interface output defining the lesson from the 4 components and data in the object at each remote computer.

the manipulations of the object on the remote computers.

- 1 12. The method of claim 6, wherein the data included in the object includes at 2 least one of text, images, and graphics.
- 1 13. The method of claim 6, wherein the user interface output generates a web 2 browser interface.



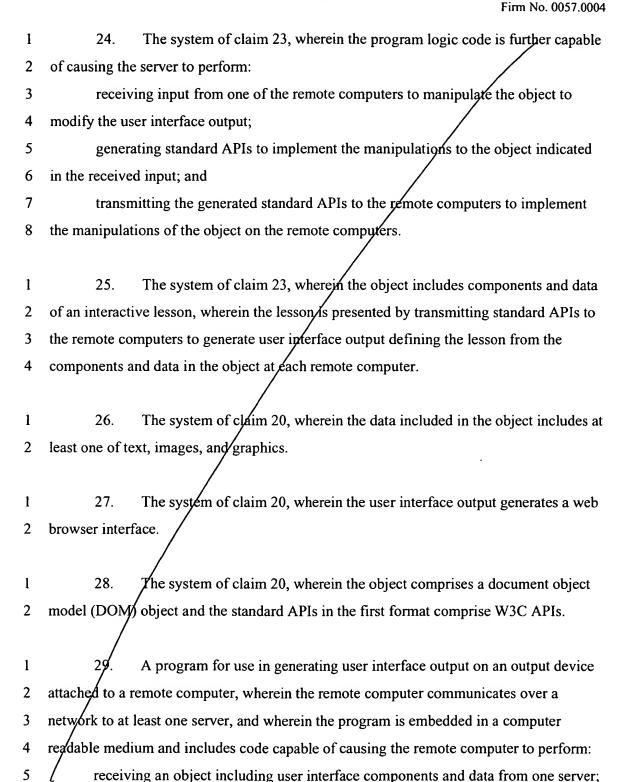
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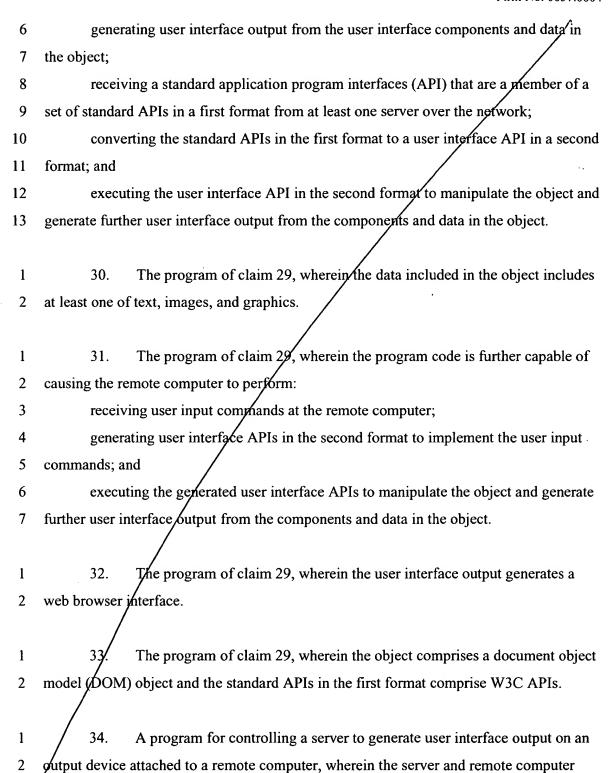
	6			
1	17. The system of claim 15, wherein the program logic code is further capable			
2	of causing the remote computer to perform:			
3	receiving user input commands at the remote computer;			
4	generating user interface APIs in the second format to implement the user input			
5	commands; and			
6	executing the generated user interface APIs to manipulate the object and generate			
7	further user interface output from the components and data in the object.			
l	18. The system of claim 15, wherein the user interface output generates a web			
2	browser interface.			
1	19. The system of claim 15, wherein the object comprises a document object			
2	model (DOM) object and the standard APIs in the first format comprise W3C APIs.			
1	20. A system for controlling user interface output on an output device attached			
2	to a remote computer, comprising:			
3	a server;			
4	a network, wherein the server communicates with the remote computer over the			
5	network;			
6	program logic executed in the server, wherein the program logic includes code			
7	capable of causing the server to perform:			
8	(i) transmitting an object to the remote computer including user interface			
9	components and data, wherein the remote computer generates user interface			
10	output from the user interface components and data in the object; and			
11	(ii) transmitting to the remote computer standard application program			
12	interfaces (API) that are a member of a set of standard APIs in a first format,			
13	wherein the remote computer converts the standard APIs in the first format to use			

14 interface APIs in a second format to manipulate the object and generate further 15 user interface output from the components and data in the object. The system of claim 20, wherein the program logic gode is further capable 1 21. of causing the server to perform: 2 3 generating a user interface at the server from a copy of the object transmitted to 4 the remote computer; 5 receiving input to control the user interface at the server; 6 generating standard APIs in the first format to control the user interface according 7 to the received input; and transmitting the generated standard APIs in the first format to the remote 8 9 computer to control the user interface output generated at the remote computer. 22. The system of claim/21, wherein the object includes images of a product, 1 2 wherein the received input at the computer is to modify the presentation of the images of 3 the product, and wherein the generated and transmitted standard APIs modify the presentation of the images of the product displayed in the generated user interface output 4 5 at the remote computer. 23. The system of claim 20, wherein the program logic code is further capable 1 2 of causing the server to perform: 3 transmitting the object to additional remote computers; 4 transmitting the standard APIs in the first format to the additional remote 5 computers that received the object to manipulate the objects on all the remote computers

and control/the generation of user interface output on the remote computers.







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at the remote computer.

communicate over a network, and wherein the program is embedded in a computer 3 readable medium and includes code capable of causing the server to perform 4 5 transmitting an object to the remote computer including user interface components 6 and data, wherein the remote computer generates user interface output from the user 7 interface components and data in the object; and 8 transmitting to the remote computer standard application program interfaces (API) that are a member of a set of standard APIs in a first format, wherein the remote computer 9 converts the standard APIs in the first format to user/interface APIs in a second format to 10 manipulate the object and generate further user interface output from the components and 11 12 data in the object. 1 35. The program of claim 34, wherein the program code is further capable of 2 causing the server to perform: 3 generating a user interface at the server from a copy of the object transmitted to 4 the remote computer; 5 receiving input to control the user interface at the server; 6 generating standard APIs in the first format to control the user interface according 7 to the received input; and 8 transmitting the generated standard APIs in the first format to the remote 9 computer to control the user interface output generated at the remote computer. 1 36. The program of claim 35, wherein the object includes images of a product, 2 wherein the received input at the computer is to modify the presentation of the images of 3 the product, and wherein the generated and transmitted standard APIs modify the presentation of the images of the product displayed in the generated user interface output





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1	37.	The program of claim 34, wherein the program code is further capable of		
2	causing the server to perform:			
3	transmitting the object to additional remote computers;			
4	transmitting the standard APIs in the first format to the additional remote			
5	computers that received the object to manipulate the objects on all the remote compute			
6 and control the generation of user interface output on the remote computers.				
1	38.	The program of claim 37, wherein the program code is further capable of		
2	causing the server to perform:			
3	receiving input from one of the remote computers to manipulate the object to			
4	modify the user interface output;			
5	generating standard APIs to implement the manipulations to the object indicated			
6	in the received input; and			
7	transmitting the generated standard APIs to the remote computers to implement			
8	the manipulations of the object on the remote computers.			
1	39.	The program of plaim 37, wherein the object includes components and		
2	data of an interactive lesson, wherein the lesson is presented by transmitting standard			
3	APIs to the remote computers to generate user interface output defining the lesson from			
4	4 the components and data in the object at each remote computer.			
1	40.	The program of claim 34, wherein the data included in the object includes		
2	at least one of	text, images, and graphics.		
	/	/		
1	41./	The program of claim 34, wherein the user interface output generates a		
2	web browser	interface.		
	/			





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42. The program of claim 34, wherein the object comprises a document object

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2 model (DOM) object and the standard APIs in the first format comprise W3C APIs.